

INVESTIGATIVE SCIENCE AND ENGINEERING, INC.

Scientific, Environmental, and Forensic Consultants

SAN DIEGO CORPORATE OFFICE

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www.ise.us

February 18, 2009

Mr. Wesley Peltzer LAW OFFICES OF WESLEY W. PELTZER 751 Rancheros Drive, Suite 4 San Marcos, CA 92069

RE: ACOUSTICAL COMPLIANCE REVIEW

LOS WILLOWS HVAC/AMPLIFIED MUSICACTIVITIES

ISE PROJECT #09-002

Dear Wes:

At the request of Los Willows, Inc., Investigative Science and Engineering, Inc. (ISE) have performed an acoustical compliance review of an existing office HVAC system and amplified music area within the subject site for compliance with Section 36.404 of the County of San Diego Noise Ordinance. Our findings are presented in this summary letter.

Purpose and Need

Los Willows has applied for a major use permit permitting weddings and team building events on a 27.74 acre site adjoining Stewart Canyon Road in Fallbrook, California. Weddings will be limited to no more than 3 events on per week on Fridays, Saturdays, Sundays and holidays. Team building events will be limited to no more than 3 events per week and these team building events will not be permitted on the same date as any wedding. The site is located approximately 1.1 miles northwest (surface street travel distance) of Interstate 15 (I-15) along Stewart Canyon Road within the community of Fallbrook, CA. A project vicinity map is shown in Figure 1 on the following page.

The County of San Diego has requested an examination of noise impacts from the existing HVAC system located on the ground adjoining the existing office as well as any noise impacts from live amplified music during wedding and reception events which occur solely within the Pavilion area of the site. Since the site is zoned A70/A72, the applicable worst-case property line standard would be 45 dBA Leq-h in accordance with Section 36.404 of the County's Noise Ordinance.

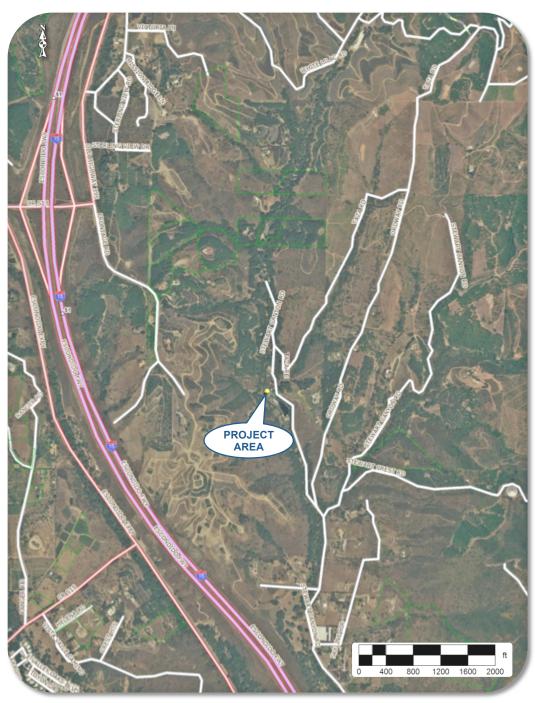


FIGURE 1: Project Vicinity Map (ISE 2/09)



Modeling Methodology

Noise emissions from the existing ground-based HVAC condenser unit (a Payne Model PH3-AN-A060A) as well as amplified music from within the Pavilion area of the site were modeled using the ISE *Industrial Source Model* (*IS*³) *v4.0.*¹ The IS³ model calculates the predicted acoustic field pattern using a vector-based summation of all source-receptor pairs. The resulting output consists of an isogram containing the predicted acoustic field accounting for refraction and structural attenuation.

The air conditioning system adjoining the existing office building on the project site is a Payne Model PH3 Series 060A heat pump. This unit has been treated acoustically as a hemispherical radiator sitting atop a partially reflective surface (the ground) resulting in maximum noise emissions of 71 dBA at a three-foot distance from the air conditioning system.

Further, music is played within the western side of the tent pavilion during weddings and receptions. The DJ for these events maintains a maximum speaker level of 75 dBA at three feet for these events so as to provide audible, but not distractive, background sound.

Thus, the acoustical model considered all attenuative effects of surrounding structures as well as treated the tent pavilion area as a mildly attenuative structure having a maximum reduction of 10 dBA. The aggregate of the resulting sources were examined for consistency with the applicable property line standards identified previously (i.e. 45 dBA Leq-h). Sources found to exceed the applicable standards would be further examined for appropriate mitigation measures.

Findings

The results of the IS³ computer modeling are provided in Figure 2 on the following page for the current HVAC and amplified music configuration seen onsite. The colored contours represent areas of equal noise exposure within the project site and surrounding properties and are a composite of the approximate 250,000 data points generated by the computer model.

As can be seen from the results, the 45-dBA Leq-h noise contour line remains completely within the grey boundaries of the current project site during simultaneous operation of both the HVAC unit and amplified music. Since simultaneous operation of the air conditioning system and the music does not result in any noise impacts at the property lines exceeding 45 dBA, the project is in full compliance with the County's noise ordinance and no mitigation for noise impacts is warranted.

¹ The ISE *Industrial Source Model (IS*³) v4.0 provides a visual representation of an acoustic field pattern across any three-dimensional surface factoring in the effects of topographic and structural interference, apparent receptor elevation, static reflection from objects, multiple material attenuative sources, variable propagation rates and source types, and atmospheric scattering.



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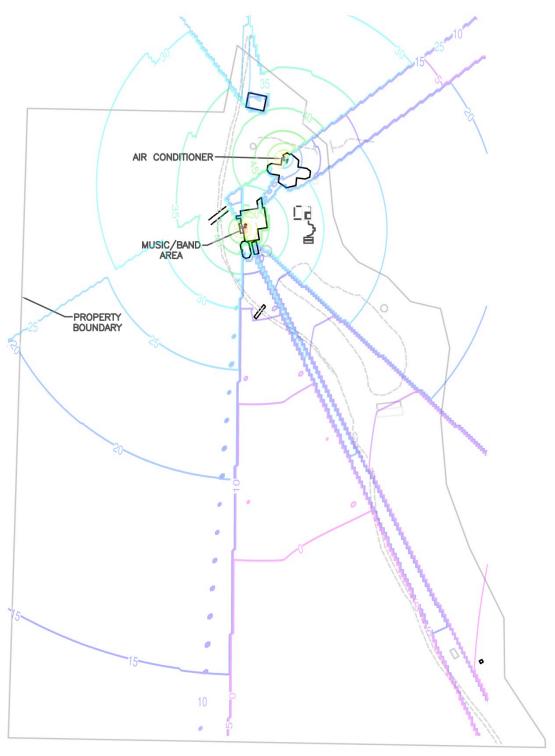


FIGURE 2: Predicted Onsite Radiated Sound Field (ISE 2/09)



The simultaneous operation of the air conditioning system and the music does not result in any noise impacts exceeding 45 dBA at any property line and the project is therefore in full compliance with the County's noise ordinance. These noise sources will not result in any noise impacts to sensitive receptors located off-site and no mitigation is required. Should you have any questions regarding the above findings or conclusions, please do not hesitate to contact me at (760) 787-0016.

Sincerely,

Rick Tavares, Ph.D. Project Principal

Investigative Science and Engineering, Inc.

Cc: Karen Tavares - ISE

Attachments: Payne PH3A 13 SEER Heat Pump Specifications

IS³ Model Input/Output Printouts



Payne PH3A 13 SEER Heat Pump Specifications



Product Data

FEATURES AND BENEFITS

REFRIGERATION CIRCUIT

- · Copeland compressors on all models
- Filter-Drier supplied with every unit for field installation
- · Copper tube / aluminum fin coil

EASY TO INSTALL AND SERVICE

- · Easy Access service valves on all models
- · External high and low refrigerant service ports
- · Only two screws to access control panel
- · Factory charged with R-410A refrigerant

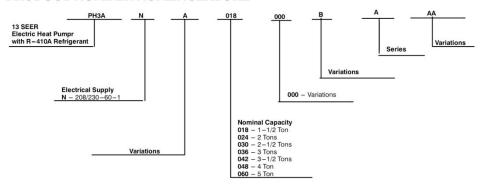
BUILT TO LAST

- · Baked-on powder coat finish over galvanized steel
- · Post-painted (black) coil fins
- · Coated cabinet screws
- Coated inlet grille with 2" spacing standard, alternate models available with 3/8" grille spacing for extra protection

WARRANTY:

· 5 year limited compressor, coil, and parts warranties

PRODUCT NUMBER NOMENCLATURE











PHYSICAL DATA

UNIT SIZE SERIES	18	24	30	36	42	48	60
Operating Weight lb. (kg.)	148 (67.1)	155 (70.3)	191 (86.6)	200 (90.7)	234 (106.1)	240 (108.9)	250 (113.4
Shipping Weight lb. (kg.)	174 (78.9)	182 (85.7)	235 (106.6)	239 (108.4)	278 (126.1)	274 (124.3)	280 (127.0
Compressor Type				Scroll			
REFRIGERANT				R-410A			
Control		on .	1	TXV (Hard Shute	off)		
Charge lb. (kg)	6.4 (2.9)	5.9 (2.7)	7.6 (3.4)	7.65 (3.5)	8.4 (3.8)	11.8 (5.3)	12.4 (5.6)
COND FAN			Prop	eller Type, Direc	ct Drive		
Air Discharge			·	Vertical			
Air Qty (CFM)		2614		3365	3810	40	46
Motor HP		1/10		1/4	1/5	1	/4
Motor RPM		1	100			800	
COND COIL							
Face Area (Sq ft)	15	.09	25	.87	25.15	20.12	22.63
Fins per In.				20			
Rows			1				2
Circuits	4	5	6	6	6	8	8
VALVE CONNECT. (In. ID)		•		•		•	
Vapor	5,	/8	3	/4		7/8	
Liquid				3/8			
REFRIGERANT TUBES* (In. OD)							
Vapor (0-80 Ft Tube Length)	5,	/8	3	/4	7	/8	1-1/8
Liquid (0-80 Ft Tube Length)				3/8			

^{*} For tubing sets between 80 and 200 ft. horizontal or 20 ft. vertical differential, consult the Longline Guideline.

Note: See unit Installation Instruction for proper installation.

VAPOR LINE SIZING AND COOLING CAPACITY LOSS R-410A 1-STAGE HEAT PUMP APPLICATIONS

LONG LINE APPLICATION: An application is considered "Long line" when the total equivalent tubing length exceeds 80 ft (24.4 m) or when there is more than 20 ft (6.1 m) vertical separation between indoor and outdoor units. These applications require additional accessories and system modifications for reliable system operation. The maximum allowable total equivalent length is 250 ft. (76.2 m). The maximum vertical separation is 200 ft (76.2 m)

when outdoor unit is above indoor unit, and 50 ft (15.2 m) when the outdoor unit is below the indoor unit. Refer to Accessory Usage Guideline below for required accessories. See Long-Line Application Guideline for required piping and system modifications. Also, refer to the table below for the acceptable vapor tube diameters based on the total length to minimize the cooling capacity loss.

	Acceptable			Cod	oling Capa	city Los	s (%)Tot	al Equiva	lent Line l	Length (ft.)		
Unit Nominal Size (Btuh)	Vapor Line Diameters	Stand	dard Appli	cation			Long Li	ne Applic	ation Req	uires Acce	ssories	
	(In. OD)	25	50	80	80+	100	125	150	175	200	225	250
18000	1/2	1	2	3	3	4	6	7	8	9	10	12
1-Stage R-410A HP	5/8	0	0	1	1	1	1	2	2	3	3	3
24000	5/8	0	1	1	1	2	3	3	4	4	5	6
1-Stage R-410A HP	3/4	0	0	0	0	0	1	1	1	1	1	2
00000	5/8	1	2	3	3	3	4	5	6	7	8	9
30000 1-Stage R-410A HP	3/4	0	0	1	1	1	1	2	2	2	3	3
Totago II Trovilli	7/8	0	0	0	0	0	1	1	1	1	1	1
22222	5/8	1	2	4	4	5	6	7	9	10	11	13
36000 1-Stage R-410A HP	3/4	0	0	1	1	1	2	2	3	3	4	4
1 - Olago 11 - 410ATII	7/8	0	0	0	0	0	1	1	1	1	2	2
42000	3/4	0	1	2	2	2	3	4	4	5	6	6
1-Stage R-410A HP	7/8	0	0	1	1	1	1	2	2	2	3	3
48000	3/4	0	1	2	2	3	4	5	5	6	7	8
1-Stage R-410A HP	7/8	0	0	1	1	1	2	2	2	3	3	4
20000	3/4	1	2	4	4	5	6	7	9	10	11	12
60000 1-Stage R-410A HP	7/8	0	1	2	2	2	3	4	4	5	5	6
. sugs Trontil	1 1/8	0	0	0	0	1	1	1	1	1	1	2

Standard Length = 80 ft. (24.4 m) or less total equivalent length

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit. See Long Line Application Guidelines



ACCESSORIES

ORDER NUMBER	DESCRIPTION	018	024	030	036	042	048	060
HC34GE239	BALL BEARING MOTOR	Х						
HC34GE240	BALL BEARING MOTOR		X	X				
HC38GE228	BALL BEARING MOTOR					X		
HC40GE226	BALL BEARING MOTOR				X			
HC40GE228	BALL BEARING MOTOR						X	X
KAACH1201AAA	CRANKCASE HTR					X	S	S
KAACH1401AAA	CRANKCASE HTR	X	Х	X	X			
KSACY0101AAA	CYCLE PROTECTOR	X	X	X	Х	Х	X	X
KAAFT0101AAA	FREEZE THERMOSTAT	X	X	Х	X	Х	X	X
KSAHS1701AAA	HARD START	X	X	X	X	X	Х	X
KHAIR0101AAA	ISOLATION RELAY	Χ	X	X	X	X	Х	X
KSALA0301410	LOW AMBIENT PSW	Χ	X	X	X	X	X	X
KSALA0601AAA	MOTORMASTER 230V	X	Х	Х	X	X	Х	X
KHAOT0201SEC	OUTDOOR THERMOSTAT	X	X	Х	X	X	Х	X
KHAOT0301FST	OUTDOOR THERMOSTAT	X	X	Х	Х	X	X	X
KHALS0401LLS	SOLENOID VALVE	X	X	X	X	X	X	X
KSASH0601COP	SOUND BLKT	Χ	X	Х	Х	X	Х	
KSASH2101COP	SOUND BLKT							X
KAACS0201PTC	START ASSIST PTC	X	X	X	X	X	X	X
KSASF0101AAA	SUPPORT FEET	X	Х	X	X	X	Х	X
KAATD0101TDR	TIME DELAY RELAY	Х	Х	Х	Х	Х	Х	Х
KSATX0201PUR	TXV PURON HSO	X	Х	Х				_
KSATX0301PUR	TXV PURON HSO				Х	Х		
KSATX0401PUR	TXV PURON HSO						X	
KSATX0501PUR	TXV PURON HSO			7				X

x = Accessory S = Standard

ACCESSORY USAGE GUIDELINE

ACCESSORY	REQUIRED FOR LOWMBIENT COOLING APPLICATIONS (Below 55°F / 22.8°C)	REQUIRED FOR LONG LINE APPLICATIONS* (Over 80 Ft./24.4 m)	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles/3.2 km)
Crankcase Heater	Yes	Yes	No
Evaporator Freeze Thermostat	Yes	No	No
Accumulator	Standard	Standard	Standard
Compressor Start Assist Capacitor and Relay	Yes	Yes	No
Motor Master® Control or Low-ambient Pressure Switch	Yes	No	No
Support Feet	Recommended	No	Recommended
Liquid Line Solenoid Valve	No	See Long – Line Ap- plication Guideline	No
Ball Bearing Fan Motor	Yes†	No	No

^{*} For tubing line sets between 80 and 200 ft. and/or 20 ft. vertical differential, refer to Residential Split—System Longline Application Guideline.
† Required for Low—Ambient Controller (full modulation feature) and MotorMaster® Control only.



Accessory Description and Usage (Listed Alphabetically)

1. Compressor Start Assist - Capacitor and Relay

Start capacitor and relay gives a "hard" boost to compressor motor at each start up.

Usage Guideline:

Required for reciprocating compressors in the following applications:

Long line

Low ambient cooling

Hard shut off expansion valve on indoor coil

Liquid line solenoid on indoor coil

Required for single-phase scroll compressors in the following applications:

Long line

Low ambient cooling

Suggested for all compressors in areas with a history of low voltage problems.

2. Compressor Start Assist — PTC Type

Solid state electrical device which gives a "soft" boost to the compressor at each start-up.

Usage Guideline:

Suggested in installations with marginal power supply.

3. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage Guideline:

Required in low ambient cooling applications.

Required in long line applications.

Suggested in all commercial applications.

4. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

5. Isolation Relay

An SPDT relay which switches the low-ambient controller out of the outdoor fan motor circuit when the heat pump switches to heating mode.

Usage Guideline:

Required in all heat pumps where low ambient kit has been added.

6. Liquid-Line Solenoid Valve (LLS)

An electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation. It is to be installed at the outdoor unit to control refrigerant off cycle migration in the heating mode.

Usage Guideline:

An LLS is required in all long line heat pump applications to control refrigerant off cycle migration in the heating mode. See Long Line Guideline.

7. Low-Ambient Pressure Switch Kit

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits. The control will maintain working head pressure at low-ambient temperatures down to 0°F when properly installed.

Usage Guideline:

A Low-Ambient Pressure Switch or MotorMaster® Low-Ambient Controller must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

8. MotorMaster® Low-Ambient Controller

A fan-speed control device activated by a temperature sensor, designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to -20°F (-28.9°C), it maintains condensing temperature at $100^{\circ}\text{F} \pm 10^{\circ}\text{F}$ ($37.8^{\circ}\text{C} \pm -12^{\circ}\text{C}$).

Usage Guideline:

A MotorMaster® Low Ambient Controller or Low-Ambient Pressure Switch must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

Suggested for all commercial applications.

9. Outdoor Air Temperature Sensor

Designed for use with Bryant Thermostats listed in this publication. This device enables the thermostat to display the outdoor temperature. This device also is required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for all Bryant thermostats listed in this publication.

10. Outdoor Thermostat

An SPDT temperature-actuated switch which turns on supplemental electric heaters when outdoor air temperature drops below a user-selected set point.

Usage Guideline:

Electric supplemental heat applications in non-variable speed indoor units when electric heat staging is desired.

11. Secondary Outdoor Thermostat

An SPDT temperature-actuated switch which turns on third-stage of supplemental electric heaters when outdoor air temperature drops below the second-stage set point.

Usage Guideline:

Outdoor thermostat applications where electric heater is capable of 3-stage operation.



Accessory Description and Usage (Listed Alphabetically) - CONTINUED

12. Support Fee

Four stick-on plastic feet that raise the unit 4 in. above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base, minimizing corrosion.

Usage Guideline:

Suggested in the following applications:

Coastal installations

Windy areas or where debris is normally circulating. Rooftop installations.

For improved sound ratings.

13. Thermostatic Expansion Valve (TXV)

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Kit includes valve, adapter tubes, and external equalizer tube. Hard shut off types are available.

NOTE: When using a hard shut off TXV with single phase reciprocating compressors, a Compressor Start Assist Capacitor and Relay is required.

Usage Guideline:

Required to achieve ARI ratings in certain equipment combinations. Refer to combination ratings.

Hard shut off TXV or LLS required in air conditioner long line applications.

Required for use on all zoning systems.

14. Time-Delay Relay

An SPST delay relay which briefly continues operation of indoor blower motor to provide additional cooling after the compressor cycles off.

Note: Most indoor unit controls include this feature. For those that do not, use the guideline below.

Usage Guideline:

Accessory required to meet ARI rating, where indoor not equipped.

15. Winter Start Control

This control is designed to alleviate nuisance opening of the low-pressure switch by bypassing it for the first 3 minutes of operation



ELECTRICAL DATA

UNIT SIZE	V/PH	OPER	VOLTS*	сом	PR	FAN	MCA	MIN WIRE SIZE†	MIN WIRE SIZE†	MAX LENGTH (ft.)‡	MAX LENGTH (ft.)‡	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA	FLA		60° C	75° C	60° C	75° C	AIVIPS
018				48	9.0	0.75	11.9	14	14	66	62	20
024				58	12.8	0.75	16.8	14	14	47	45	25
030				77	16.5	0.75	21.4	12	12	58	56	30
036	208-230/1	253	197	79	16.7	1.4	22.2	12	12	56	54	35
042				109	19.9	1.2	26.0	10	10	77	73	40
048				117	27.3	1.2	35.4	8	8	88	84	50
060				134	26.3	1.2	34.1	8	8	91	87	50

RLA — Rated Load Amps

NOTE: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

A-WEIGHTED SOUND POWER (dBA)

UNIT SIZE	STANDARD RATING		TYPICAL O	CTAVE BAND	SPECTRUM	(dB, without to	ne adjustmer	nt)
UNII SIZE	(dBA)	125	250	500	1000	2000	4000	8000
18	76	52.0	63.5	68.0	70.5	66.5	62.0	57.5
24	75	54.5	64.0	69.0	69.5	67.5	64.0	58.0
30	74	52.0	62.5	66.5	68.5	65.0	63.5	59.0
36	76	60.0	64.0	69.5	70.0	68.5	65.5	60.5
42	77	55.5	60.0	63.5	71.5	65.0	62.5	59.0
48	78	58.0	65.5	68.5	72.0	66.5	60.5	53.0
60	76	55.0	63.0	67.5	71.5	68.0	64.0	60.5

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE - SERIES	REQUIRED SUBCOOLING °F (°C)
018	10 (5.6)
024	12 (6.7)
030	11 (6.1)
036	10 (5.6)
042	11 (6.1)
048	11 (6.1)
060	12 (6.7)



^{*} Permissible limits of the voltage range at which the unit will operate satisfactorily

† If wire is applied at ambient greater than 30°C, consult table 310–16 of the NEC (ANSI/NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (ANSI/NFPA 70) Article 336–26. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (ANSI/NFPA 70).

Tol.

** Length shown is as measured 1 way along wire path between unit and service panel for voltage drop not to exceed 2%.

** Time—Delay fuse.

** Time—Delay fuse.

**ELA — Full Load Amps

** LRA — Locked Rotor Amps

** MCA — Minimum Circuit Amps

IS3 Model Input/Output Printouts

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IS3 PROGRAM INPUT DECK - (C) 2009 INVESTIGATIVE SCIENCE & ENGINEERING INC.
GLOBAL VARIABLE DECLARATION
   PROBLEM STATEMENT: LOS WILLOWS
   STARTING POINT (XY IN FEET): 9031,9513
   ENDING POINT (XY IN FEET): 10041,11064
   ANALYSIS FREQUENCY (HZ): 1000
   REFERENCE DISTANCE FOR SOUND (D IN FEET): 3
   SOUND PROPAGATION COEFF XLOG10: 20
   EXCESS ATTENUATION (DB): 0
   COMPUTATIONAL STEP DISTANCE (IN FEET): 5
   RECEPTOR ELEVATION (IN FEET): 5
ACOUSTIC SOURCE DECLARATION (XYZ - SOUND LEVEL - LABEL)
   NUMBER OF SOURCE POINTS: 2
   9525,10601,5,75,MUSIC
   9610,10753,4,71,HVAC
BARRIER SEGMENT DECLARATION (START XY - END XY - HEIGHT - STC - LABEL)
   NUMBER OF BARRIER PAIRS: 59
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   9563,10546,9554,10544,15,0,RESTROOM
   9554,10544,9548,10569,15,0,RESTROOM
DISCRETE RECEPTOR POINT DECLARATION (XYZ - LABEL)
   NUMBER OF DISCRETE RECEPTORS: 0
   0,0,0,NOPOINT
END OF INPUT FILE - REV 4.0
                                                                                              9800
                                         10600
                                               10400
                                                    10200
                                                                              9200
                                                               9800
```



9600